

Claim Amendments

Please amend the claims as follows:

Claims 1-32 (canceled).

33. **(currently amended)** A method of fabricating a plurality of individual chips, each of said chips having an array of chemical compounds ~~for conducting chemical reactions,~~ said method comprising:

(a) preparing a plurality of ~~said~~ chips on a single silicon substrate, wherein each of said chips comprises an array of electronically addressable sites, each site for electronically carrying out a chemical reaction and each site comprising an electrode, ~~and~~

(b) applying reagents for synthesizing said chemical compounds on said substrate and utilizing said electronically addressable sites to conduct said synthesizing, and

(c) severing said single silicon substrate into ~~said~~ individual chips wherein each of said chips comprises an array of chemical compounds ~~electronically addressable sites and each site comprising an electrode.~~

34. **(currently amended)** A method of fabricating a plurality of individual chips, each of said chips comprising an array ~~for conducting a part of a synthesis of oligonucleotides,~~ said method comprising:

(a) preparing a plurality of ~~said~~ chips on a single silicon substrate, wherein each of said chips comprises an array of electronically addressable sites, each site for electronically carrying out a part of a synthesis of oligonucleotides and each site comprising an electronic cell within said silicon substrate, ~~and~~

(b) applying reagents for synthesizing said oligonucleotides on said substrate and utilizing said electronically addressable sites to conduct said synthesizing, and

(c) severing said single silicon substrate into ~~said~~ individual chips wherein each of said chips comprises an array of oligonucleotides ~~electronically addressable sites and wherein each of said sites comprises an electronic cell within said silicon substrate.~~

35. **(currently amended)** A method of fabricating a plurality of individual chips comprising ~~for conducting a synthesis of oligonucleotides to form~~ oligonucleotide arrays, said method comprising:

(a) preparing a plurality of ~~said~~ chips on a single silicon substrate, wherein each of said chips comprises an array of electronically addressable sites, each site for electronically carrying out a synthesis of an oligonucleotide of said oligonucleotides to form oligonucleotide arrays, ~~and~~

(b) exposing said substrate to nucleotide monomers and electronically addressing said sites to form said oligonucleotide arrays, and

(c) severing said single silicon substrate into said individual chips ~~wherein each of said chips comprises an array of electronically addressable sites and wherein each of said sites comprises an electrode within said silicon substrate.~~